SCREENING SITE INSPECTION WORK PLAN

FOR

WOODLAND LANDFILL SOUTH ELGIN, ILLINOIS U.S. EPA ID: ILD097282750

7282750 D

SS ID: NONE TDD: F05-8704-044 PAN: FIL0193GA

US EPA RECORDS CENTER REGION 5

938788

SEPTEMBER 13, 1989

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

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WORK PLAN

SITE INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released vithout prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (VP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this VP are to:

- o Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of VP);
- Prepare projected HRS 1 scores based on experience and professional judgement (Part C of VP);
- o Provide HRS factor values using the revised HRS 2 (Federal Register proposed date, April 1988) criteria (Part D of VP);
- o Identify HRS 1 score data gaps (Part F of VP); and
- o Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOB are provided (Parts F and J, respectively).

Unless otherwise stated, QA/QC protocol for site inspection activities are documented in the <u>Quality Assurance Project Plan Region V FIT</u> Conducted Site Inspections - May 1, 1987.

Note: This Work Plan has been prepared following the HRS model currently in use. Revisions will be made to bring the VP in agreement with the revised HRS requirements after promulgation in October 1988:

A. GENERAL INFORMATION

CERCLIS SITE NAME: Woodland Landfill
ALSO KNOWN AS:
FORHERLY KNOWN AS:
ADDRESS: Rt 25 & Gilbert Rd.
CITY: South Elgin
STATE: Illingis
COUNTY: Kane
U.S. EPA ID: FLD 097282750
SSID:
TDD: F&5-87&4-&44 PAN: FIL &193 GA.
FIT USE ONLY
WORK PLAN TYPE: X SCREENING SITE INSPECTION (SSI) WORK PLAN
OTHER .
OTHER:
PREPARED BY: Michael Phillips (FIT) DATE: 8-10-89
REVIEWED BY: Link (FIT) DATE: 8-29-89
REVIEWED BY: Link (FIT) DATE: 8-29-89
APPROVED BY: m. martn (FIT) DATE: 9/13/89
AFFROVED B1: 111. 11 WW 12. 111.
[45] [16] [16] [16] [16] [16] [16] [16] [16
U.S. EPA USE ONLY
REVIEWED BY: (U.S. EPA) DATE:
설명 전에 전면 전 전 전 전 전 전 전 전 전 보이 보이 보이 보는 그는 데 이 시계를 맞는다면 하지만 하다면 다른다.
WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.
WORK PLAN APPROVED. Recommend 1350ance of 100 to impressent the work Plan.
WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).
WORK PLAN REJECTED.
COHHENTS:

B. SITE INFORMATION

This section of the VP presents current and historic information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

Above ground storage Belov ground storage	X Mining site Open dump
Chemical manufacturer Drum recycler	Ore processor
Electroplater	Physical/chemical treament Recycler/reclaimer Surface impoundment Underground injection
Foundry Incinerator	
Landfarm Landfill	Well field Wood preserver
- Hidnight dump	Other:
Storage/Disposal Methods (past and	yaste Quantity (amount/units of measure)
	Vaste Quantity
Storage/Disposal Methods (past and	Vaste Quantity (amount/units of measure)
Storage/Disposal Methods (past and Drums, above ground Landfarm Landfill	Vaste Quantity (amount/units of measure)
Drums, above ground Landfarm Landfill Open dump Piles	Vaste Quantity (amount/units of measure)
Drums, above ground Landfarm Landfill Open dump Piles Surface impoundment	Vaste Quantity (amount/units of measure)
Drums, above ground Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground	Vaste Quantity (amount/units of measure)
Drums, above ground Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground	Vaste Quantity (amount/units of measure)
Drums, above ground Landfarm Landfill Open dump Piles Surface impoundment Tank, above ground Tank, below ground	Vaste Quantity (amount/units of measure)

. Site Status: X Active	Inactive
References: 4,8,	
. Owner/Operator History	
Current Ovner	Current Operator
Name: Waste Mot of Illinois, Inc. Address:	Name: Waste Management of Ill., Address: PO Box 563
PO Box 563 City. State. Zip Code: Palos Heights, IL, 60463 Tears of Ownership: ? - present	City, State, Zip Code: Palos y Heights, IC 60463
Years of Ownership: ? - present	Type of Operation: landfill Years of Operation: 1976-present
Previous owners (list most recent first)	Previous operators (list most recent first)
Name: Unknown Address:	Name: Un Khown Address:
Address:	Address:
City, State, Zip Code:	City, State, Zip Code:
Years of Ownership: Unknown	Type of Operation: gravel mine Years of Operation: - 1944
Name:	Name:
Address:	Address:
City, State, Zip Code:	City, State, Zip Code:
Years of Ownership:	
	Type of Operation: Tears of Operation:
References:	· · · · · · · · · · · · · · · · · · ·
6. Permit Information	Effective Date Expiration Date
NPDES	
uic	
AIR	
RCRA, PART A PART B SPCC PLAN >1976-23-0P	m 8 1836
STATE (specify)? 1983-18-09	March 17,1986 Unknown
LOCAL (specify):	Zamorii) ivo
OTHER (specify):	
NONE	
References:	

Vater supply closed Temporary vater supply provided Permanent vater supply provided Spilled material removed Contaminated soil removed Vaste repackaged Vaste disposed elsewhere On-site burial In situ treatment Encapsulation Emergency vaste treatment Cutoff valls Emergency diking/surface vater diversion Other remedial and enforcement activity [and fill adjacent immedia]	Cutoff trenches/sump Subsurface cutoff vall Barrier vall constructed Capping/covering Bulk tankage repaired Grout curtain constructed Bottom sealed Gas control Fire control Leachate treatment Area evacuated Access to site restricted Population relocated
has shown observed releading and ground water pathway on the NPL	se' to the surface
References: 4 8	<u>//</u>
8. Site History/Description and Unusual References: 4, 8,	Features: (see following page.

9. Documented and Alleged Target Compounds

Documented and alleged target compounds are compiled in Table 1. The documented target compounds are supported by analytical data from previous sampling projects. The alleged target compounds are based on the history of site operations and professional judgement. Documented and alleged target compound locations are shown on Figure 2, located in Section 2.

SITE HISTORY (Continued)

The site was a gravel mining operation until the
1940's. The site began operation as a land fill in
1976.
The site is located on a waterway and adjacent to a
wetlands, as well as adjacent to a residential area. Two
layers of silty clay till underlie the site. Waste Management
of Illinois owns and operates the site. The site
design, by Patrick Engineering Includes: a leachate
collection system, a methane collection system with
flares, compacted clay side seals and dike, and
compacted clay bottom seals. The site is surrounded
by a monitoring well network. Located immediately
east of the site is the closed Tri-County
Landfill, a NPL site that has shown observed
release to the groundwater and surface mater
pathways.
[전기] 전 스탠드 [1] [1 전환 [1] [1 시를 시는 [1] 를 가는 하는 기를 본 기를 받는 것이다. [1] [1 기를 받아 그는 것이다. [2 기를 받아 그렇게 되었다.

	CMPND	STATUS			М	ATRI	x (1		DOCUMENTED COMPOUND AND CONCENTRATION OR	REFERENCE
LOCATON	DOCU	ALLEO	SOIL	SED	OW	sy	AIR	WSTE	OTHR		
N/A		X	X		6					Bachouse Dust (Phenolics & Resins)	4
MA		\times	X							Baghouse Dust (Phenolics + Resins) Heavy Metals (Industrial Sludge)	4
								-			
						_	_		_		
						_		-			
			_		_		_				
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E. VORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy ERS data gaps;
- O Develop the information base needed to permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

Screen site with sexplosimeter, raccollect environmen	of site and surrounding areas safety instrumentation (i.e., ENU, OVA, 02 meter adiation detector, cyanide detector) ntal samples or Immediate Removal Actions
Soil gas monitoring Well point install Geophysics*: OTHER*:	ng*
Well point install	lation*
Geophysics*:	(Specify)
OTHER*:	
tionale for these ac	tivities and their impact on HRS data gaps:
The state of the s	
	The second secon

Page	1	of	2

F. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3)	Sampling proposed to satisfy HRS data gap(s):
	Soil Sediment GW SW Air Waste
(:)	
	methodology): Nine (9) soil samples and a background
	will be obtained using stainless steel hours, from and spoons. Three samples will be taken at depth, to
	remaining samples will be surface samples. Landfill cove
	will not be penetrated. Samples will be taken from
	stained soils, near leathate seeps, or from topographic
	stained soils, near leachate seeps, or from topographic
	table of proposed sample descriptions is presented in Table 2
Se	stained soils, near leachate seeps, or from topographic
Se	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2.
Se	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2.
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Sein A)	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2. HRS data gap(s): Observed release to groundwater Sampling proposed to satisfy HRS data gap(s):
Sein A) B)	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2. HRS data gap(s): Observed release to groundwater Sampling proposed to satisfy HRS data gap(s): Soil Sediment X GV SV Air Vast
Sein A) B)	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2. HRS data gap(s): Observed release to groundwater Sampling proposed to satisfy HRS data gap(s): Soil Sediment X GV SV Air Vast (Gwells) Sampling procedures (number and types of samples; equipment;
Sein A) B)	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2. HRS data gap(s): Observed release to groundwater Sampling proposed to satisfy HRS data gap(s): Soil Sediment X GV SV Air Vast (Gwells) Sampling procedures (number and types of samples; equipment; methodology): Six monitoring wells (on-site) will be
Secin A)	table of proposed sample descriptions is presented in Table 2 ction 1. A proposed sample location map is presented on Figure Section 2. HRS data gap(s): Observed release to groundwater Sampling proposed to satisfy HRS data gap(s): Soil Sediment X GV SV Air Vast (Gwells) Sampling procedures (number and types of samples; equipment;

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

F. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3	A)	HRS data gap(s): Observed release to surface water.
	B)	Sampling proposed to satisfy HRS data gap(s):
	C)	Soil Sediment GW SW Air Waste Sampling procedures (number and types of samples; equipment; methodology): The current party and the samples of samples.
		methodology): The surface water pathnay will not be sampled at this time.
	Se	table of proposed sample descriptions is presented in Table 2, ction 1. A proposed sample location map is presented on Figure 3 Section 2.
+	A)	HRS data gap(s): Observed release to air
	В)	Sampling proposed to satisfy HRS data gap(s): SoilSedimentGWSWAirWaste
	C)	Sampling procedures (number and types of samples; equipment; methodology): Air monitoring will not be obtained during the inspection

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

PARAMETERS 1 MATRIX (V) RATIONALE FOR DETERMINING SAMPLE LOCATION A/B/N Pest/ YOA METAL CNT LOCATION SOIL SED GW SW AIR WSTE OTHR OTHER Observed Release to Groundwater MWI MW2 MW3 MW4 MW5 MW6 Duplicate DUP X Distilled water blank: Lab QA/QC BLK waste characteristics 51 52 53 54 55 56 57 58 59 Background soil characteristics 510 TOTALS 10 7

*1491

. Table 2
PROPOSED SAMPLE DESCRIPTIONS
(INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

¹Target Compound List Attached

G. COMMENTS

The former Tri-County Landfill, an NR site with document contamination to both surface water and groundwater pathwa is located immediately adjacent to the east of woodland
contamination to both surface water and groundwater pathwa
is located immediately adjacent to the east of woodland
Landfill. Groundwater flow is from east to west. The upgradie
hackground samples may contain high levels of contaminant this could make an observed release difficult to documen
this could make an observed release difficult to documen
Additional on-site monitoring wells may have to be
sampled.
H. HEALTH AND SAFETY
Proposed E & E Health and Safety protocol to be followed during site
inspection.
Zinopeetzani.
1. Anticipated level of protection: A B C \searrow D
2 Level of protection modifications: Nos://
2. Level of protection modifications: <u>Possible upgrade to level C</u> if monitoring equipment indicates an increased hazard.
IT monitoring equipment indicates an increased hazard.
3. Work limitations (time of day, etc.): lake to detice of 1/14 hours
3. Work limitations (time of day, etc.): Work during day light hour only; monitor for heat/cold stress as site conditions warrent; maintain huddy system.
and the roll of the state conditions
warrent; maintain buddy system.
I. TYPE OF DELIVERABLE
Proposed report format to be submitted to U.S. EPA.
1 V CCI Beaut including H C PD4 2070 12 P
1. X SSI Report including U.S. EPA 2070-13 Form
2. Letter Report
3 Other

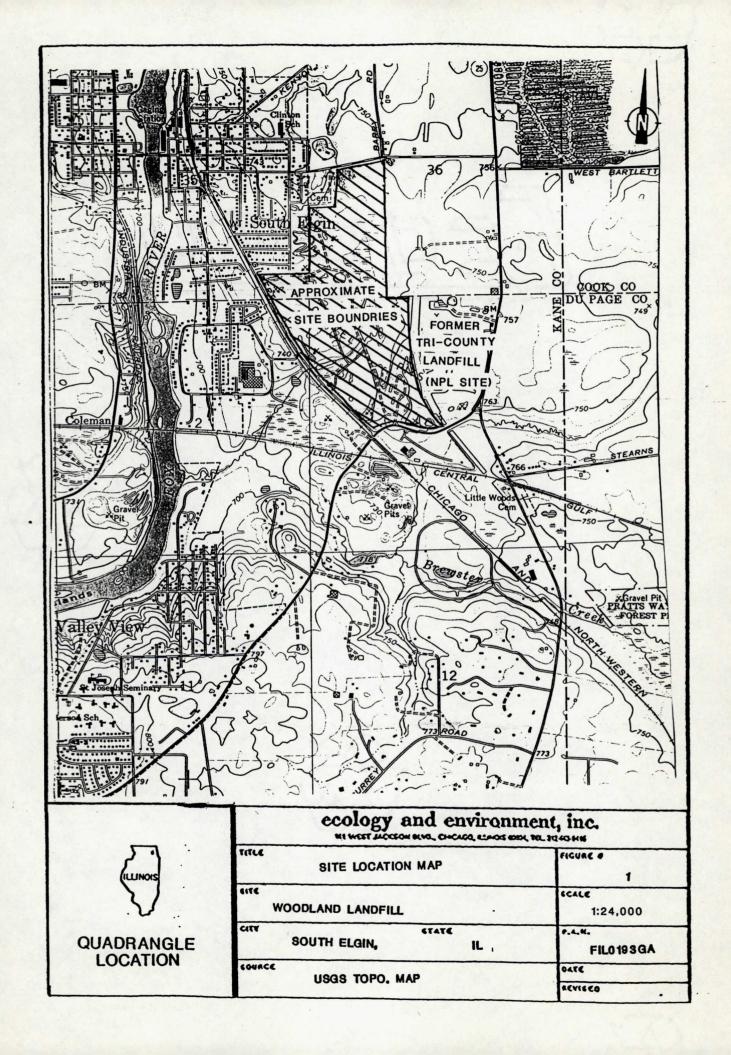
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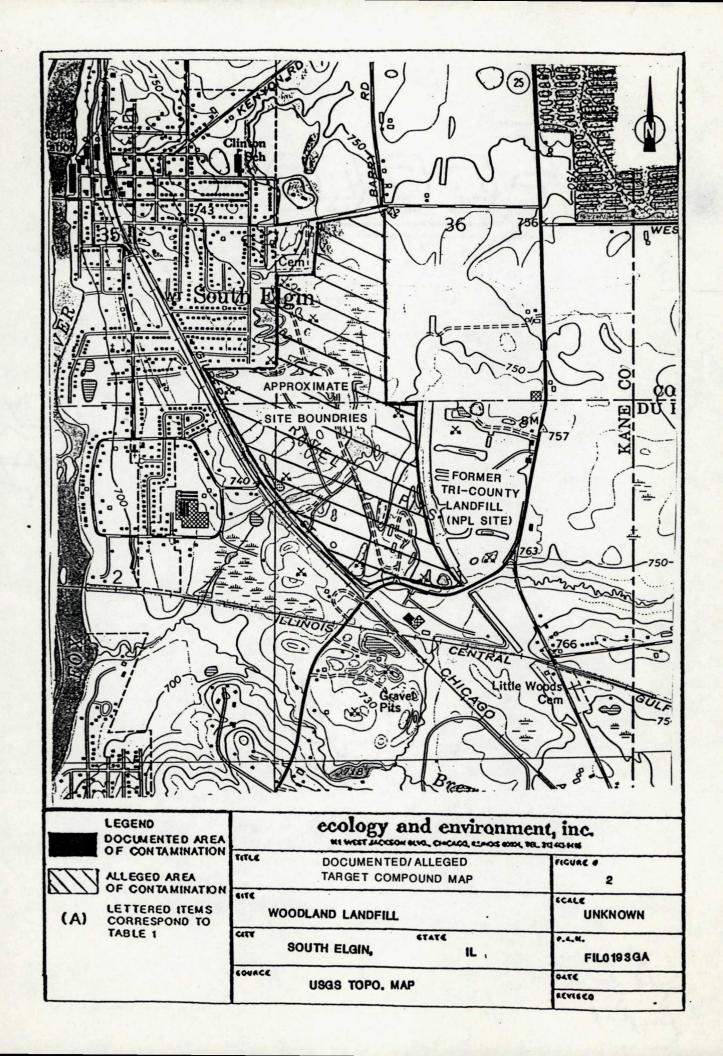
SITE MAPS

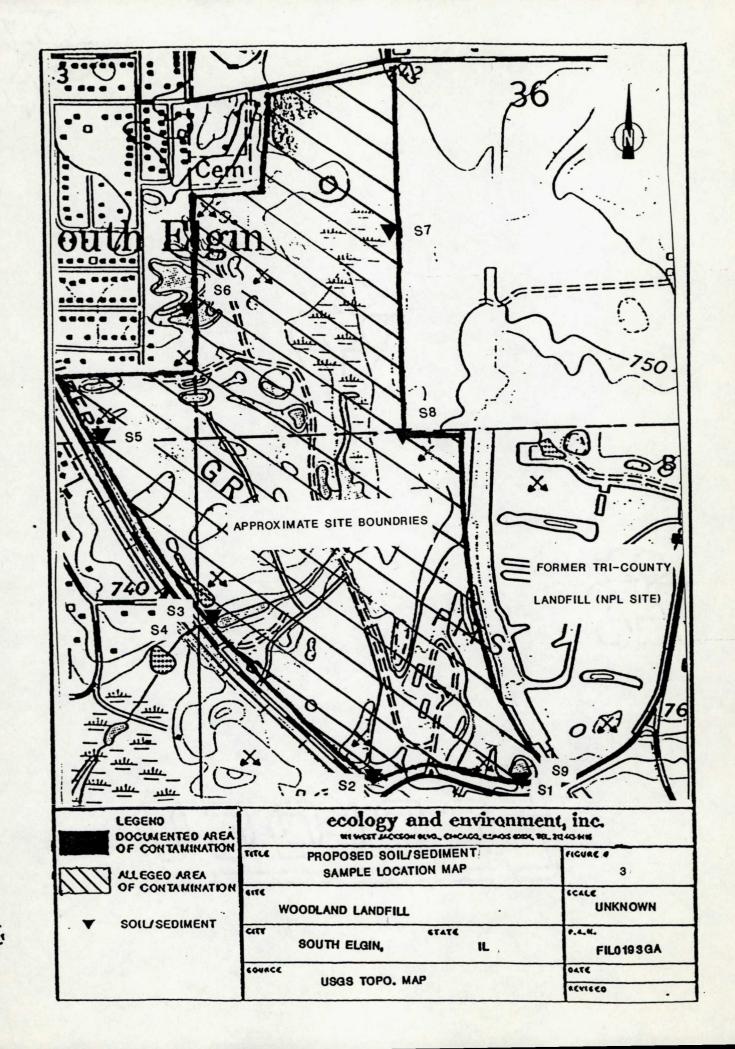
SITE MAPS

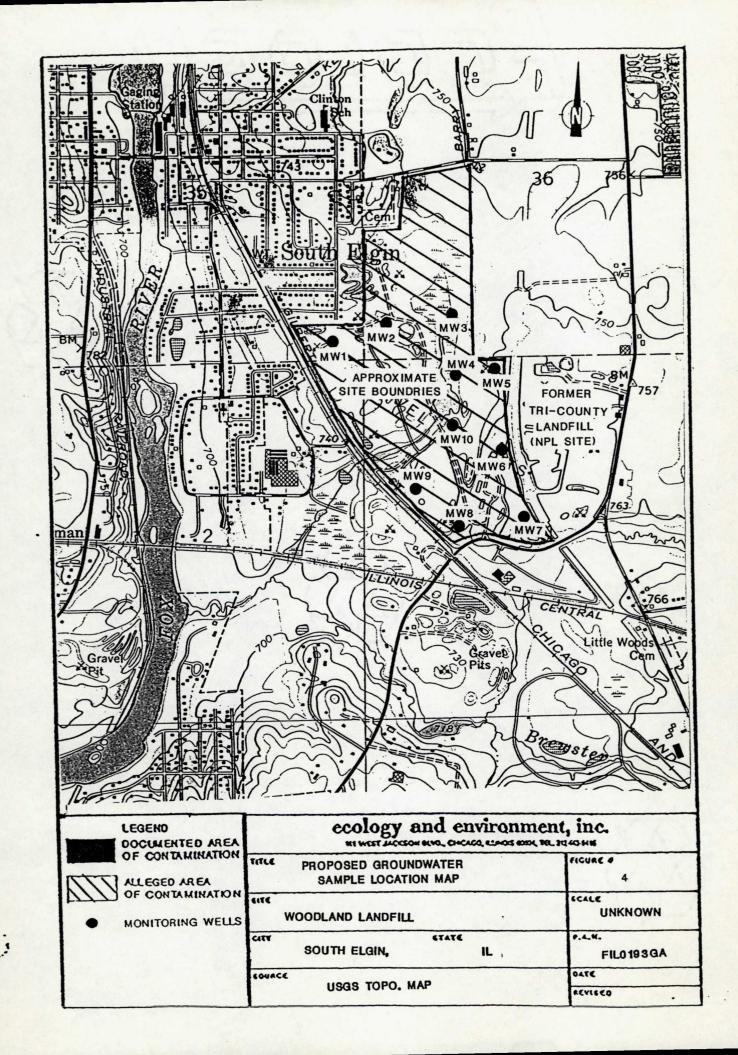
- 1. SITE LOCATION MAP (TOPO)
- 2. DOCUMENTED/ALLEGED
 TARGET COMPOUND MAP
- 3. PROPOSED SAMPLE LOCATION MAP

ecology and environment, inc.						
TITLE		FIGURE 0				
6176		CALE				
CITY	STATE	P.4.W.				
60URCE		DATE				









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APPENDIX

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when reviewing this work plan.

Addendum	Title
(A)	Routine Analytical Services Contract Required Detection and Quantitation Limits
B	Central Regional Laboratory Detection Limits
С	Special Analytical Services Detection Limits Drinking Vater Samples
D	Special Analytical Services Detection Limits High Concentration Samples

REFERENCES

SOURCES AND DATES OF INFORMATION COLLECTION

SOUR	CE	DATE
1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11)	State Hazardous/Solid Vaste Files State Vater Files State Air Files State Department of Health State Geological Survey State Department of Natural Resources State Fire Marshall County Department of Health County Engineer County Clerk/Recorder of Deeds City Department of Health City Engineer	7 :
13) 14) 15)	City Fire Department/Fire Harshall City Vater/Sever Department U.S. Soil Conservation Service Others	2/15+16/88 + 8/22/84
STAT	TE CONTACT(S):(name)	(phone number)
	(name)	(phone number)

REFERENCE DOCUMENTATION SHEET

Ref.	DESCRIPTION OF REFERENCE
1	Rainfall Frequency Atlas, U.S. Dept. of
	Commerce, 1963, Gov't. Printing Office,
	Washington, D.C., Technical Paper #40,
2	Climatic Atlas of the United States,
	U.S. Dept. of Commerce, 1968, Gov't
	Printing Office, Washington D.C.,
	pp. 48 + 63
3	1980 Census of Population, U.S. Dept.
	of Commerce, Gov't Printing Office,
	Washington, n.C.
-1	
4	U.S. EPA Potential Hazardous Waste
	Site Preliminary Assessment,
6	Woodland Landfill, South Elgin, IL,
	1983

REFERENCE DOCUMENTATION SHEET

	HEFERENCE DOCUMENTATION SHEET
Ref.	DESCRIPTION OF REFERENCE
5	USGS Topographic Maps, 7.5' series,
	Elgin, IL; West Chicago, IL; Stream wood,
	IL; Geneva, IL; 1964 (rev. 1972; 1980)
6	Endangered and Threatened . Species of
	Illinois, Status and Distribution,
	Illinois Dept. of Conservation, 1981
-	
7	Illinois Travel and Recreation
	Guide, Rockford Map Publishers, 1983.
8	Woodland Landfill II, Kane County, IL,
	Application to IEPA to Develop Site.
	Patrick Engineering for Waste Management
ē	1983

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
9	Hydrogeologic Evaluation, Letter from ISGS
	to kane Co. Environmental Division, Aug. 27,
	1982
10	Telephone Logs, Karl Von Heimburg (E4E)
	with Dave Knight (Village of South Elgin), F. Fabreys
	(Baxter & Woodman, Inc), K. Eshelman (Elgin Water Dept.),
24	M. Smith (South Elgin Water Dept.); Dan Sewall
	(EAE) with Mike Niemy (St Charles Skylaine
	Sener + Water Co. re: Valley View)
11	IEPA Site Inspection Reports, 1973-
	1986, Woodland Landfill .
98	
12	IEPA Memo from Bob Koch, March 29,
	1978
6	